CLAIMS

1. A communication device that supplies electric power to a communication partner and communicates therewith by electromagnetic induction on a non-contact basis,

wherein electric circuits other than an antenna are enclosed in a first shielding member made of a material that shuts off, reflects, or absorbs radio waves, and the antenna is enclosed in a second shielding member of which a portion facing a front face of the antenna is made of a material that attenuates radio waves in a predetermined frequency band.

2. A communication device as claimed in claim 1, wherein a filter is inserted in a line that electrically connects the antenna to other electric circuits.

3. A communication device as claimed in claim 2, wherein the filter has a frequency response identical with a frequency response of the portion of the second shielding member facing the front face of the antenna.

4. A communication device as claimed in claim 1, wherein a portion of the first shielding member is shared as a portion of the second shielding member other than the portion thereof facing the front face of the antenna.

5. A communication device as claimed in claim 4, wherein the first shielding member has a recess formed therein so as to sink inward, the antenna is arranged in the recess, and the second shielding member is arranged so as to cover

an opening of the recess.

6. A communication device as claimed in claim 1, wherein the portion of the second shielding member facing the front face of the antenna has such a frequency response as to permit passage of radio waves only in a frequency band centered around a frequency used for communication.

7. A communication device as claimed in claim 1, wherein the first shielding member has a double structure by being composed of an inner layer made of a material that absorbs radio waves and an outer layer made of a material that reflects radio waves.

8. (Amended) A communication device that supplies electric power to a communication partner and communicates therewith by electromagnetic induction on a non-contact basis,

wherein electric circuits other than an antenna are enclosed in a first shielding member made of a material that shuts off, reflects, or absorbs radio waves, and the antenna is enclosed in a second shielding member that has an opening formed in a portion thereof facing a front face of the antenna so as to attenuate radio waves in a frequency band corresponding to an area of the opening.

9. A communication device as claimed in claim 8, wherein a filter is inserted in a line that electrically connects the antenna to other electric circuits.

10. A communication device as claimed in claim 9, wherein the filter has

a frequency response identical with a frequency response of the portion of the second shielding member facing the front face of the antenna.

11. A communication device as claimed in claim 8, wherein a portion of the first shielding member is shared as a portion of the second shielding member other than the portion thereof facing the front face of the antenna.

12. A communication device as claimed in claim 11, wherein the first shielding member has a recess formed therein so as to sink inward, the antenna is arranged in the recess, and the second shielding member is arranged so as to cover an opening of the recess.

13. A communication device as claimed in claim 8, wherein the opening formed in the second shielding member is formed in such a way that the portion of the second shielding member facing the front face of the antenna has such a frequency response as to attenuate radio waves in a frequency band below and including an upper limit of frequencies that need to be attenuated.

14. A communication device as claimed in claim 13, wherein the second shielding member has four quadrilateral openings formed therein in a grid-like arrangement.

15. A communication device as claimed in claim 8, wherein the first shielding member has a double structure by being composed of an inner layer

made of a material that absorbs radio waves and an outer layer made of a material that reflects radio waves.